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Susan L. Graham , Steven P. Rhodes

**Communications of the ACM** November 1975

Volume 18 Issue 11

This paper describes a recovery scheme for syntax errors which provides automatically-generated high quality recovery with good diagnostic information at relatively low cost. Previous recovery techniques are summarized and empirical comparisons are made. Suggestions for further research on this topic conclude the paper.

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77%



Harbans L. Sathi

**Proceedings of the seventeenth SIGCSE technical symposium on Computer science education** February 1986

The paper describes the experience gained by teaching a project-based course in Compiler Construction. The course is a blend of theoretical concepts and practical considerations that go into the development of a compiler. A project in compiler writing is an important component of this course. ASP, a subset of standard PASCAL, is used as the source language. The compiler for ASP is to be developed in various phases: character manipulator, lexical analyzer, syntax analyzer, semantic analyzer, ...

**2** [Tailoring testing to a specific compiler&mdash;experiences](#)

77%



Harlan K. Seyfer

**Proceedings of the 1982 SIGPLAN symposium on Compiler construction** June 1982

The testing of the Univac UCS-Pascal compiler is described. Tests were acquired from various sources, converted from existing tests, and developed in house. Test development and execution using the Univac Test Controller System is illustrated with examples. The experiences gained from this and other compiler testing efforts are described.

**3** [Practical LR error recovery](#)

77%



Susan L. Graham , Charles B. Haley , William N. Joy

**Proceedings of the 1979 SIGPLAN symposium on Compiler construction** August 1979

We present a practical, language independent mechanism for error recovery in LR parsers. The method is easy to implement in existing parser generators. It uses only the normal parse tables and a small amount of symbol cost information. It is possible to use compressed parse tables with the method, as well as other LR augmentations such as precedence and

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1 2 3 4 5 6 7 8 9 10

1 [The INCINERATE data model](#)

91%



H. V. Jagadish

**ACM Transactions on Database Systems (TODS)** March 1995

Volume 20 Issue 1

In this article, we present an extended relational algebra with universally or existentially quantified classes as attribute values. The proposed extension can greatly enhance the expressive power of relational systems, and significantly reduce the size of a database, at small additional computational cost. We also show how the proposed extensions can be built on top of a standard relational database system.

2 [Software safety: why, what, and how](#)

87%



Nancy G. Leveson

**ACM Computing Surveys (CSUR)** June 1986

Volume 18 Issue 2

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

3 [Constraint-based array dependence analysis](#)

85%

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3

Next  
Page**1** [Resourceful systems for fault tolerance, reliability, and safety](#) 82%

Russell J. Abbott

**ACM Computing Surveys (CSUR)** March 1990

Volume 22 Issue 1

Above all, it is vital to recognize that completely guaranteed behavior is impossible and that there are inherent risks in relying on computer systems in critical environments. The unforeseen consequences are often the most disastrous [Neumann 1986]. Section 1 of this survey reviews the current state of the art of system reliability, safety, and fault tolerance. The emphasis is on the contribution of software to these areas. Section 2 reviews current approaches to software fault ...

**2** [Language features for flexible handling of exceptions in information systems](#) 82%

Alexander Borgida

**ACM Transactions on Database Systems (TODS)** December 1985

Volume 10 Issue 4

An exception-handling facility suitable for languages used to implement database-intensive information systems is presented. Such a mechanism facilitates the development and maintenance of more flexible software systems by supporting the abstraction of details concerning special or abnormal occurrences. The type constraints imposed by the schema as well as various semantic integrity assertions are considered to be normalcy conditions, and the key contribution of this work is to allow except ...

**3** [A recovery mechanism for modular software](#) 80%